Why Java is a Robust Language?

Strong Type System

Java employs a strong type system, which ensures that variables are declared with a specific data type and that type checking is performed at compile time. This feature helps catch potential errors and promotes code reliability, making it less prone to unexpected runtime errors. By enforcing strict typing, Java allows for better code organization and improves the overall stability of programs.

Exception Handling

Exception handling is a fundamental feature of Java that enhances its robustness. Java provides a comprehensive mechanism for handling runtime errors, known as exceptions. With exceptions, developers can catch and handle errors that may occur during program execution, preventing crashes and unexpected behavior. By providing a structured approach to handling errors, Java promotes robustness and reliability in software development.